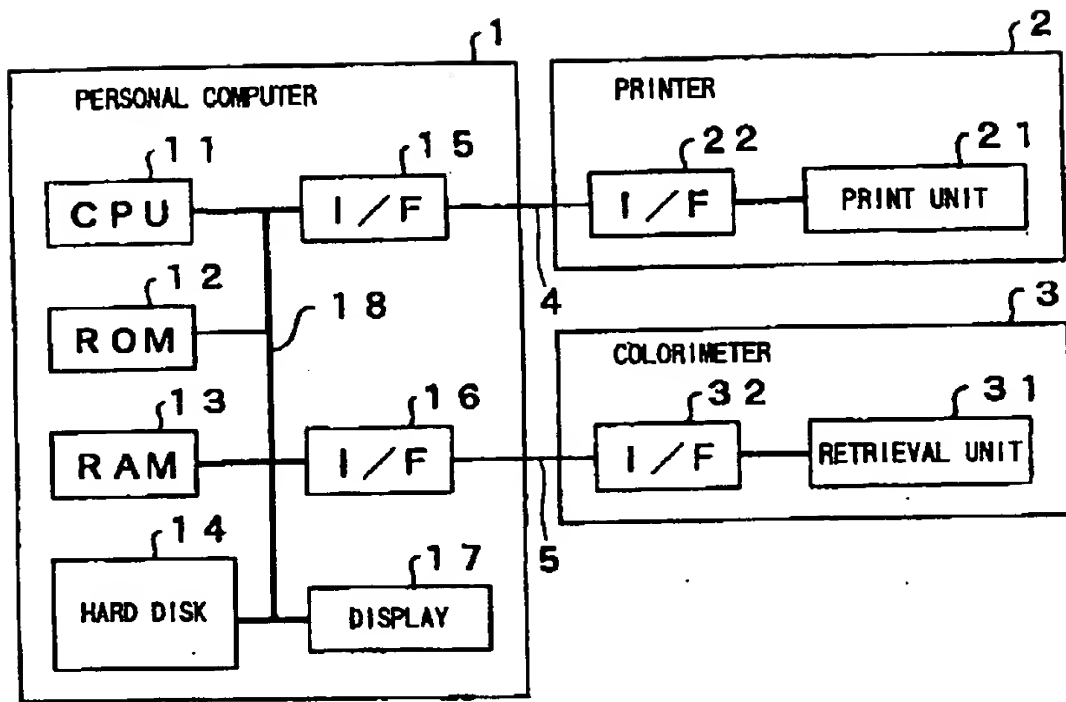


FIG. 1

10
↓



004220" B204E560

FIG. 2(a)

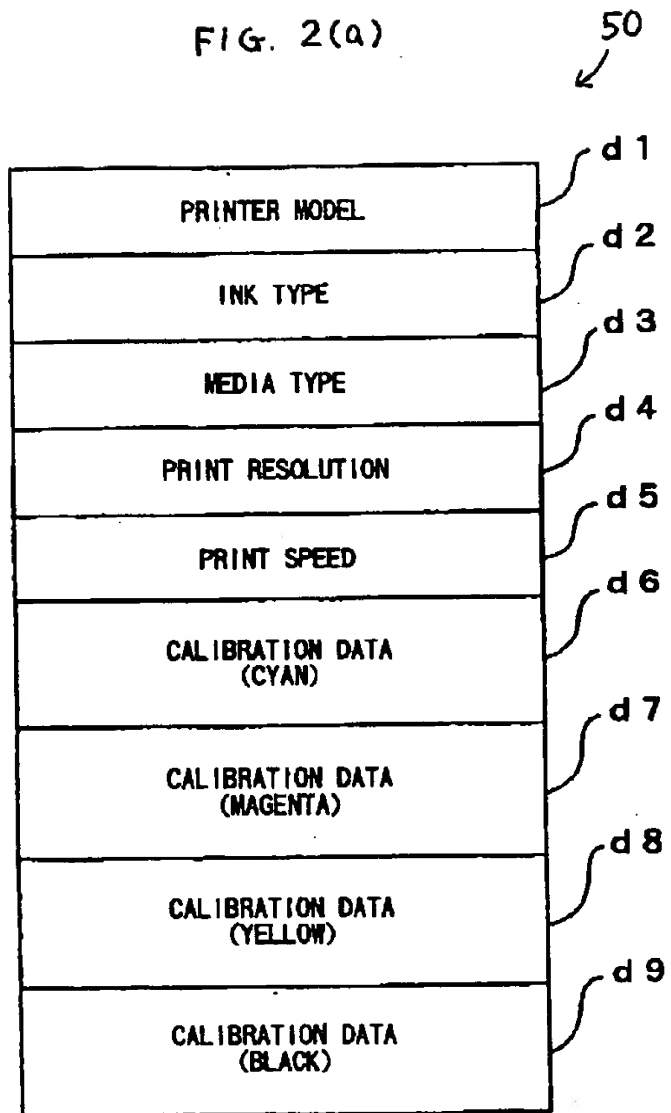
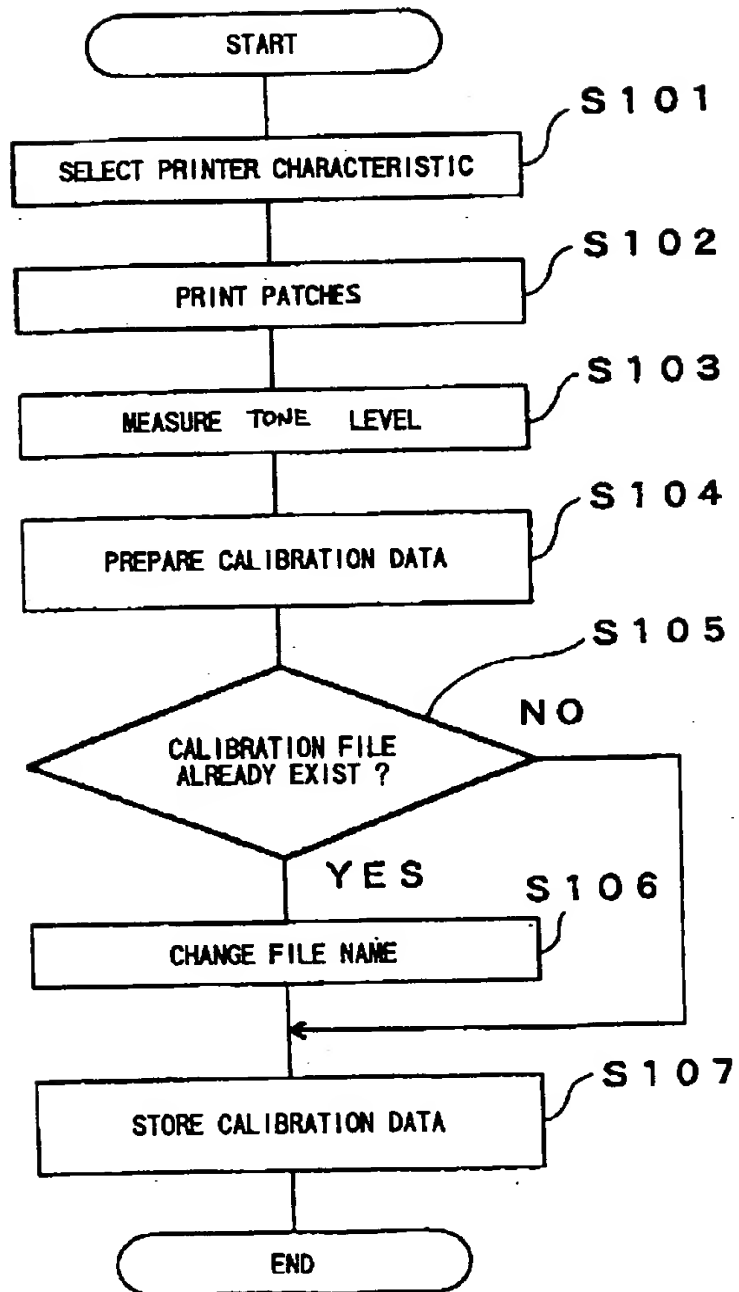


FIG. 2(b)

CALIBRATION DATA d6	
ORIGINAL LEVELS $C_{original}$	INPUT LEVELS C_{in}
0	.
5	.
2 5 5	.
CALIBRATION DATA d7	
ORIGINAL LEVELS $M_{original}$	INPUT LEVELS M_{in}
0	.
5	.
2 5 5	.
CALIBRATION DATA d8	
ORIGINAL LEVELS $Y_{original}$	INPUT LEVELS Y_{in}
0	.
5	.
2 5 5	.
CALIBRATION DATA d9	
ORIGINAL LEVELS $K_{original}$	INPUT LEVELS K_{in}
0	.
5	.
2 5 5	.

0042E0" 8204E560

FIG. 3(a)



004210" 8204550

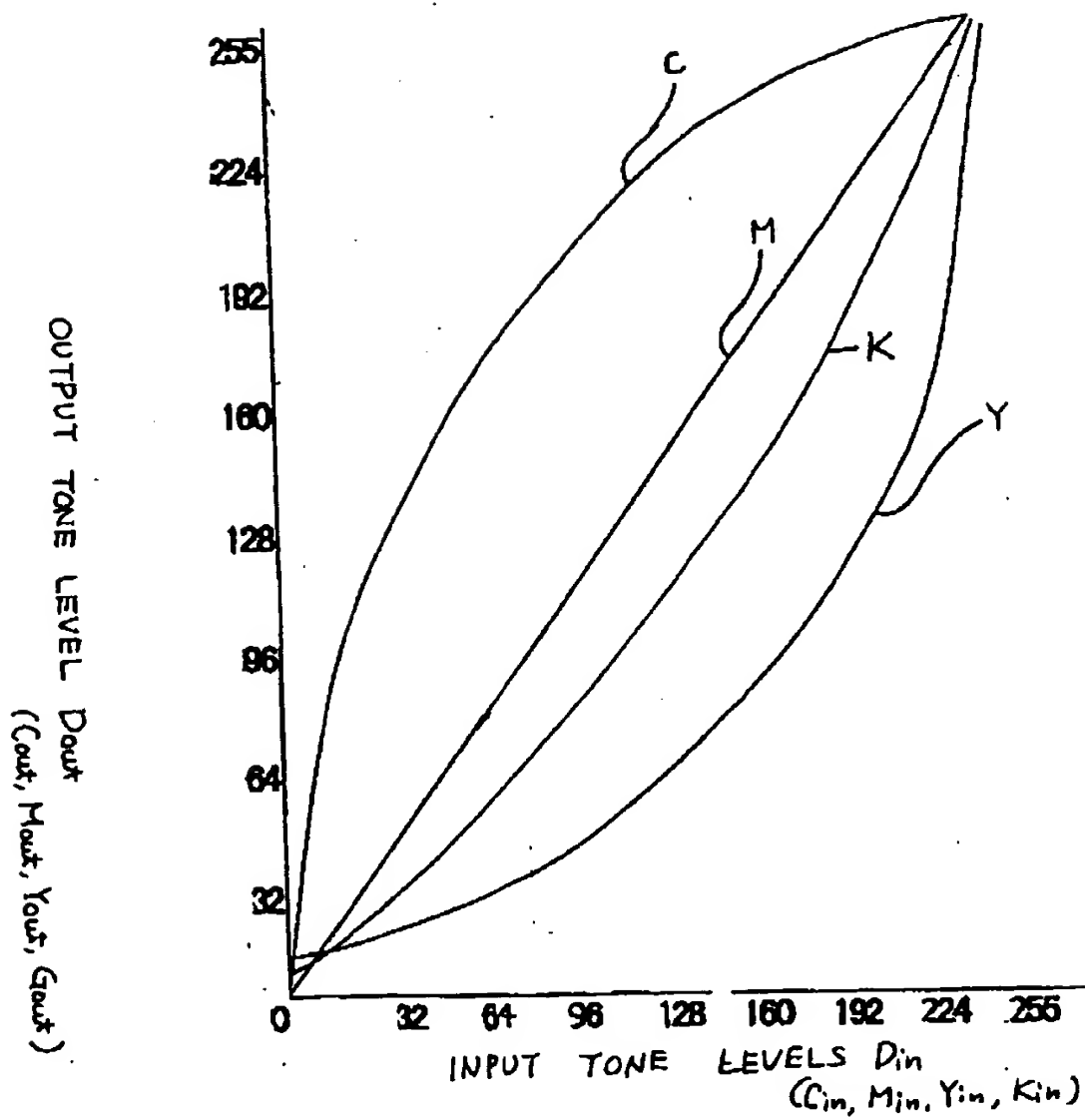
[illegible][illegible][illegible]

□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

0 16 32 48 64 80 96 128 160 192 224 255

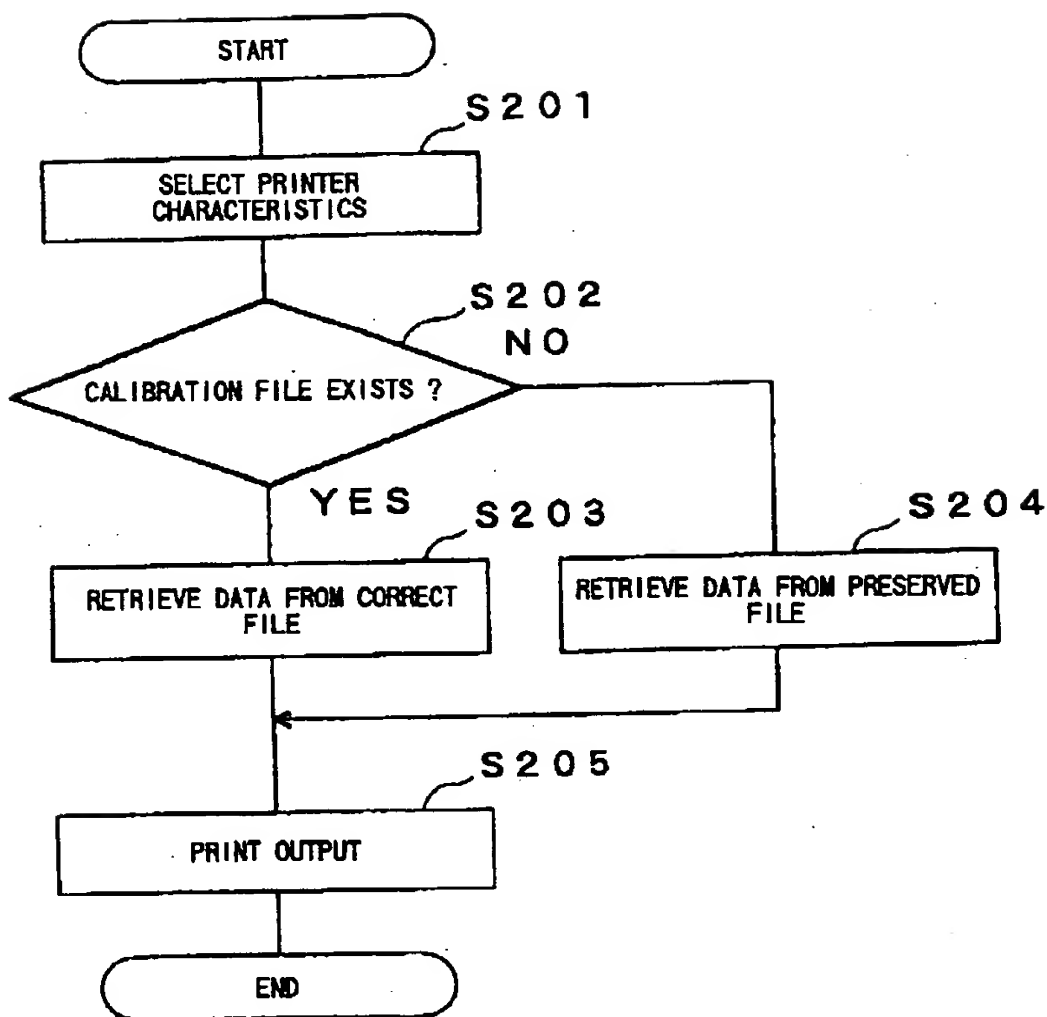
Year	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																											
Population	1,000,000	1,050,000	1,100,000	1,150,000	1,200,000	1,250,000	1,300,000	1,350,000	1,400,000	1,450,000	1,500,000	1,550,000	1,600,000	1,650,000	1,700,000	1,750,000	1,800,000	1,850,000	1,900,000	1,950,000	2,000,000	2,050,000	2,100,000	2,150,000	2,200,000	2,250,000	2,300,000	2,350,000	2,400,000	2,450,000	2,500,000	2,550,000	2,600,000	2,650,000	2,700,000	2,750,000	2,800,000	2,850,000	2,900,000	2,950,000	3,000,000	3,050,000	3,100,000	3,150,000	3,200,000	3,250,000	3,300,000	3,350,000	3,400,000	3,450,000	3,500,000	3,550,000	3,600,000	3,650,000	3,700,000	3,750,000	3,800,000	3,850,000	3,900,000	3,950,000	4,000,000	4,050,000	4,100,000	4,150,000	4,200,000	4,250,000	4,300,000	4,350,000	4,400,000	4,450,000	4,500,000	4,550,000	4,600,000	4,650,000	4,700,000	4,750,000	4,800,000	4,850,000	4,900,000	4,950,000	5,000,000	5,050,000	5,100,000	5,150,000	5,200,000	5,250,000	5,300,000	5,350,000	5,400,000	5,450,000	5,500,000	5,550,000	5,600,000	5,650,000	5,700,000	5,750,000	5,800,000	5,850,000	5,900,000	5,950,000	6,000,000	6,050,000	6,100,000	6,150,000	6,200,000	6,250,000	6,300,000	6,350,000	6,400,000	6,450,000	6,500,000	6,550,000	6,600,000	6,650,000	6,700,000	6,750,000	6,800,000	6,850,000	6,900,000	6,950,000	7,000,000	7,050,000	7,100,000	7,150,000	7,200,000	7,250,000	7,300,000	7,350,000	7,400,000	7,450,000	7,500,000	7,550,000	7,600,000	7,650,000	7,700,000	7,750,000	7,800,000	7,850,000	7,900,000	7,950,000	8,000,000	8,050,000	8,100,000	8,150,000	8,200,000	8,250,000	8,300,000	8,350,000	8,400,000	8,450,000	8,500,000	8,550,000	8,600,000	8,650,000	8,700,000	8,750,000	8,800,000	8,850,000	8,900,000	8,950,000	9,000,000	9,050,000	9,100,000	9,150,000	9,200,000	9,250,000	9,300,000	9,350,000	9,400,000	9,450,000	9,500,000	9,550,000	9,600,000	9,650,000	9,700,000	9,750,000	9,800,000	9,850,000	9,900,000	9,950,000	10,000,000

FIG. 3 (c)

 D_{in} - D_{out} RELATIONSHIP

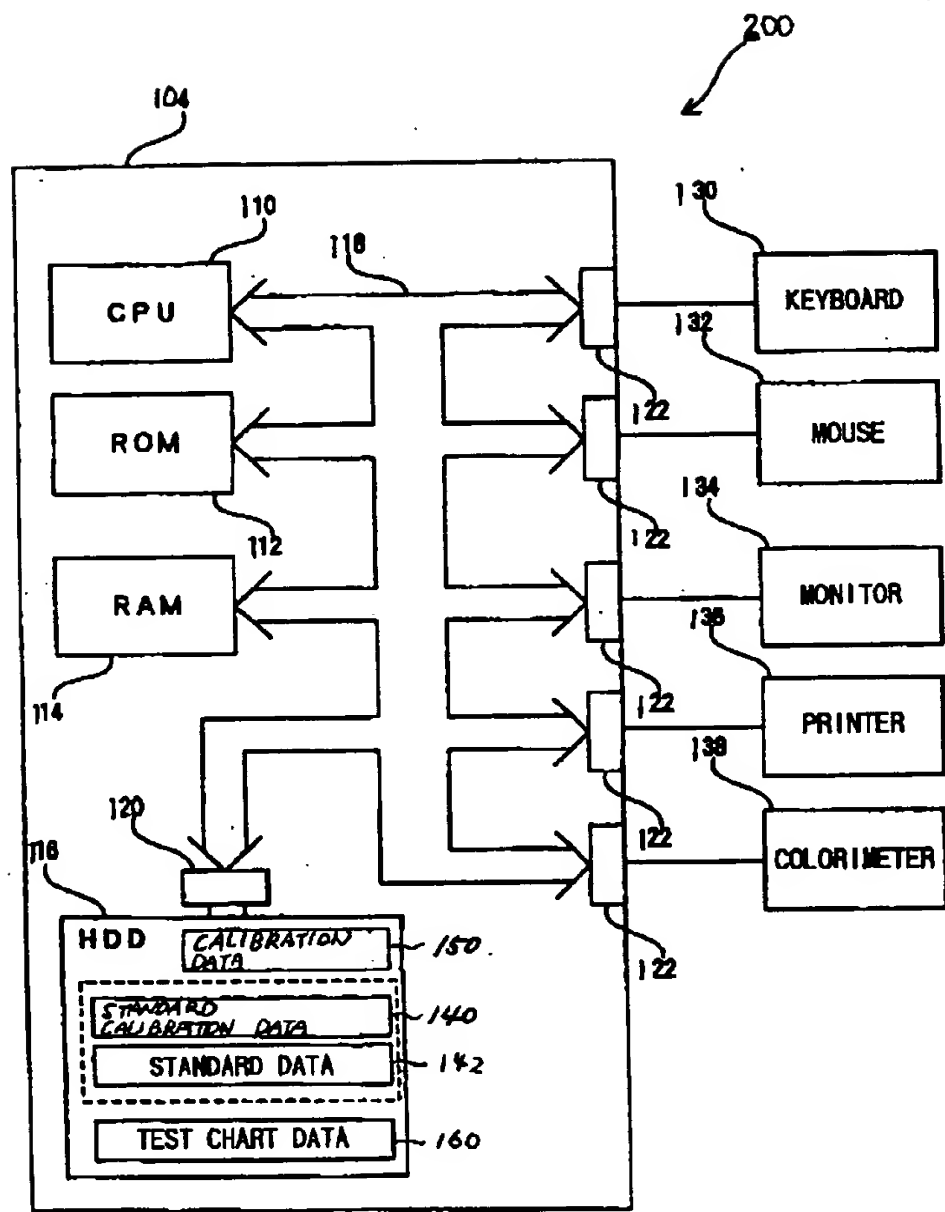
09534028, 032400

FIG. 4



004200 034400 004200 034400

FIG. 5



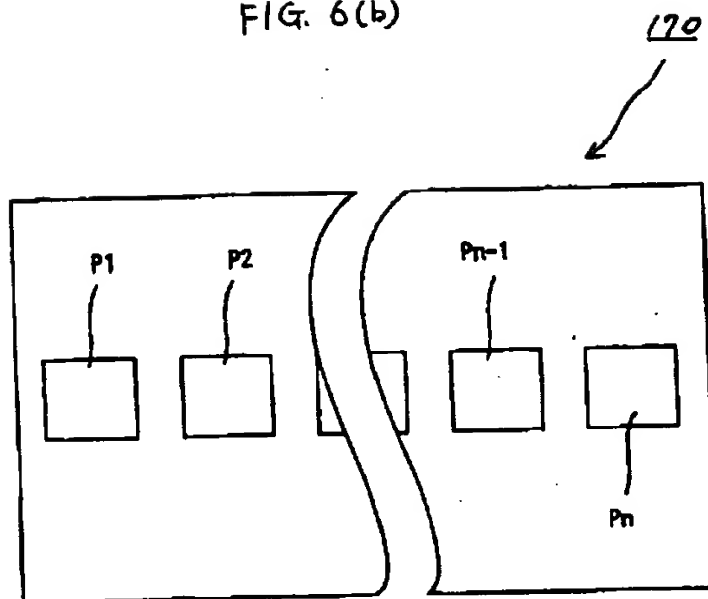
004250 8204560

FIG. 6(a)

✓ 160

PATCH NUMBER	NUMERICAL VALUES R _{in} (red)	COLORIMETER 1	COLORIMETER 2	...
P ₁	0	x_1, y_1	x_1, y_1	...
⋮	⋮	⋮	⋮	...
P(n/3)	255	$x^{n/3}, y^{n/3}$	$x^{n/3}, y^{n/3}$...
PATCH NUMBER	NUMERICAL VALUES G _{in} (green)			
P(n/3 + 1)	0	$x^{n/3+1}, y^{n/3+1}$	$x^{n/3+1}, y^{n/3+1}$...
⋮	⋮	⋮	⋮	...
P(2n/3)	255	$x^{2n/3}, y^{2n/3}$	$x^{2n/3}, y^{2n/3}$...
PATCH NUMBER	NUMERICAL VALUES B _{in} (blue)			
P(2n/3 + 1)	0	$x^{2n/3+1}, y^{2n/3+1}$	$x^{2n/3+1}, y^{2n/3+1}$...
⋮	⋮	⋮	⋮	...
P(n)	255	x^{3n}, y^{3n}	x^{3n}, y^{3n}	...

FIG. 6(b)



004250" 8204560

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FIG. 7(a)

STANDARD DATA (1)	(L^*, a^*, b^*)	STANDARD CALIBRATION DATA REFERENCE $N_0(1)$
STANDARD DATA (2)	$(L^{*'}, a^{*'}, b^{*'})$	STANDARD CALIBRATION DATA REFERENCE $N_0(2)$
STANDARD DATA (3)	$(L^{*''}, a^{*''}, b^{*''})$	STANDARD CALIBRATION DATA REFERENCE $N_0(3)$
.	.	
.	.	
.	.	

STANDARD DATA (1)
(142)

FIG. 7(b)

PATCH NO.	P1	P2	Pn-1	Pn
PATCH COORDINATES (x, y) FOR COLORIMETER (1)	x_1, y_1	x_2, y_2	x_{n-1}, y_{n-1}	x_n, y_n
L^*	L^*_1	L^*_2	L^*_{n-1}	L^*_n
a^*	a^*_1	a^*_2	a^*_{n-1}	a^*_n
b^*	b^*_1	b^*_2	b^*_{n-1}	b^*_n

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FIG. 7(c)

STANDARD CALIBRATION DATA (1)
STANDARD CALIBRATION DATA (2)
STANDARD CALIBRATION DATA (3)
⋮

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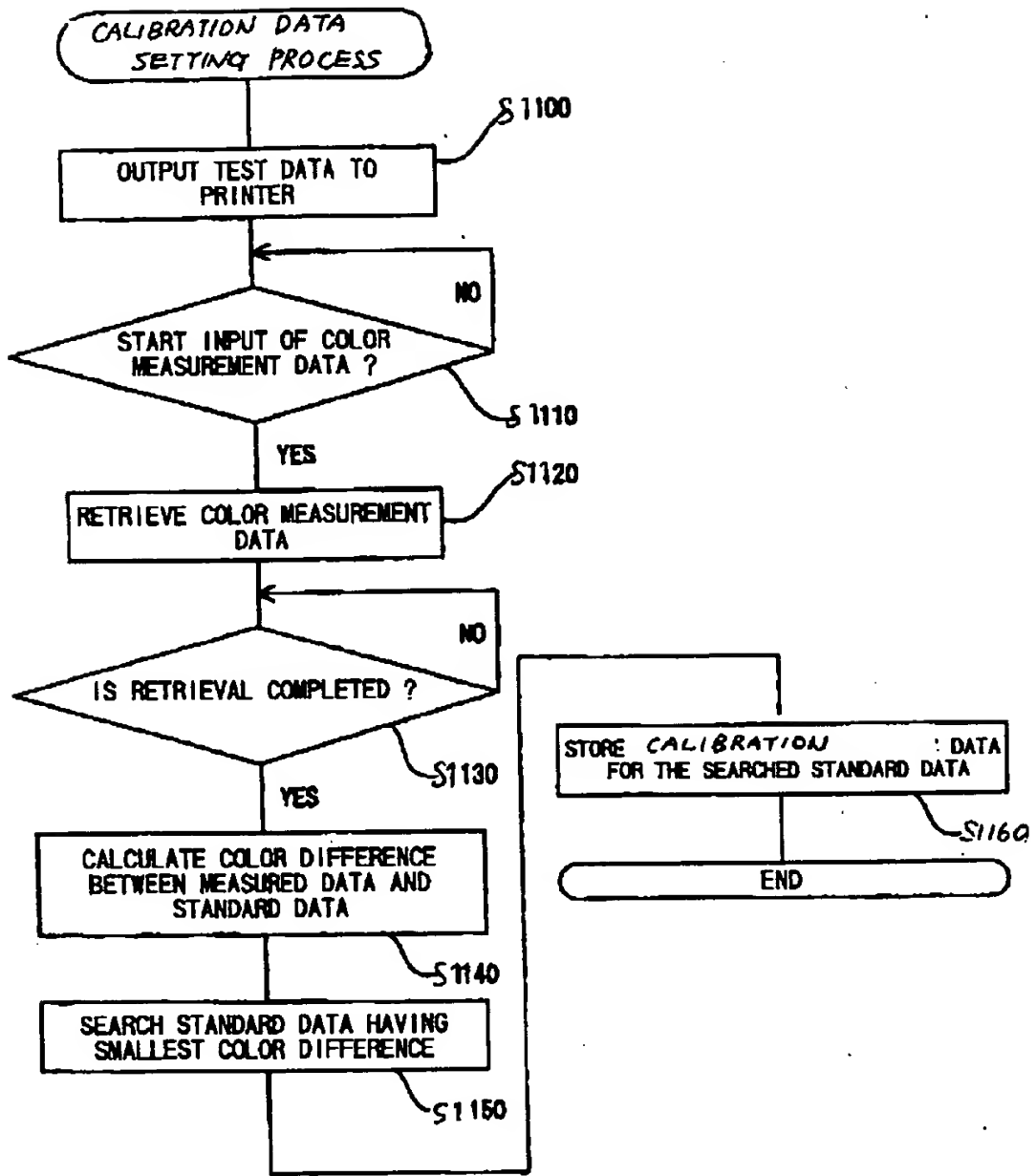
FIG. 7(d)

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CALIBRATION DATA	
ORIGINAL LEVELS $R_{original}$	INPUT LEVELS R_{in}
0	⋮
⋮	⋮
2 5 5	⋮
CALIBRATION DATA	
ORIGINAL LEVELS $G_{original}$	INPUT LEVELS G_{in}
0	⋮
⋮	⋮
2 5 5	⋮
CALIBRATION DATA	
ORIGINAL LEVELS $B_{original}$	INPUT LEVELS B_{in}
0	⋮
⋮	⋮
2 5 5	⋮

001250" 032400

FIG. 8



00534028-032400

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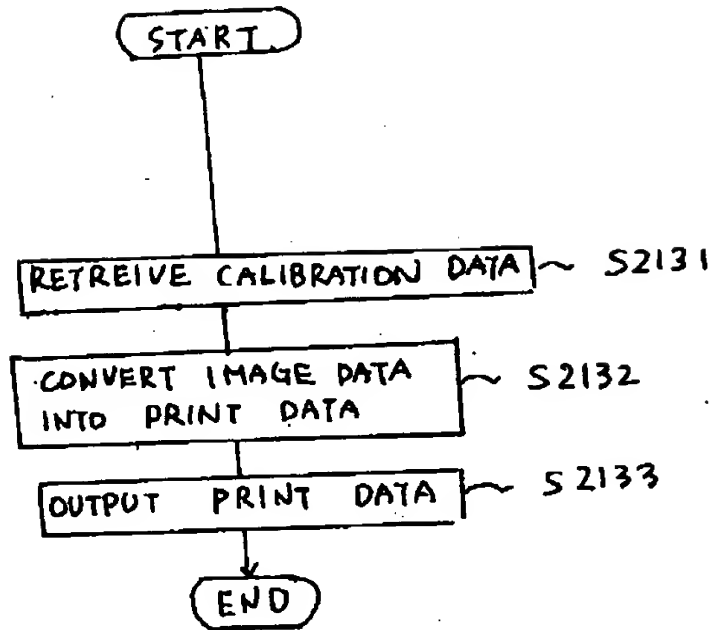
FIG. 9

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↙

PATCH NO.	P1	P2		Pn-1	Pn
MEASURED VALUE L'	L1	L2	. . .	Ln-1	Ln
MEASURED VALUE a'	a1	a2		an-1	an
MEASURED VALUE b'	b1	b2		bn-1	bn

00534020-032400

FIG. 10



004210" 02040560

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FIG. 11(a)

STANDARD
DATA (1)
(142)

PATCH NO.	P1	..	P(n/3)	P(n/3 + 1)	..
PATCH COORDINATES (x,y) FOR COLORIMETER (1)	x1, y1	..	xn/3, yn/3	xn/3+1, yn/3+1	..
DENSITY D (D = R, G, B)	R'1	..	R'n/3	G'n/3+1	..

P(2n/3)	P(2n/3 + 1)	..	Pn
x2n/3, y2n/3	x2n/3+1, y2n/3+1	..	xn, yn
G'2n/3	B'2n/3+1	..	B'n

FIG. 11(b)

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PATCH NO.	P1	..	P(n/3)	P(n/3 + 1)	..
MEASURED DENSITY D (D = R, G, B)	R1	..	Rn/3	Gn/3+1	..

P(2n/3)	P(2n/3 + 1)	..	Pn
G2n/3	B2n/3+1	..	Bn

004220" 8204560

FIG. 12

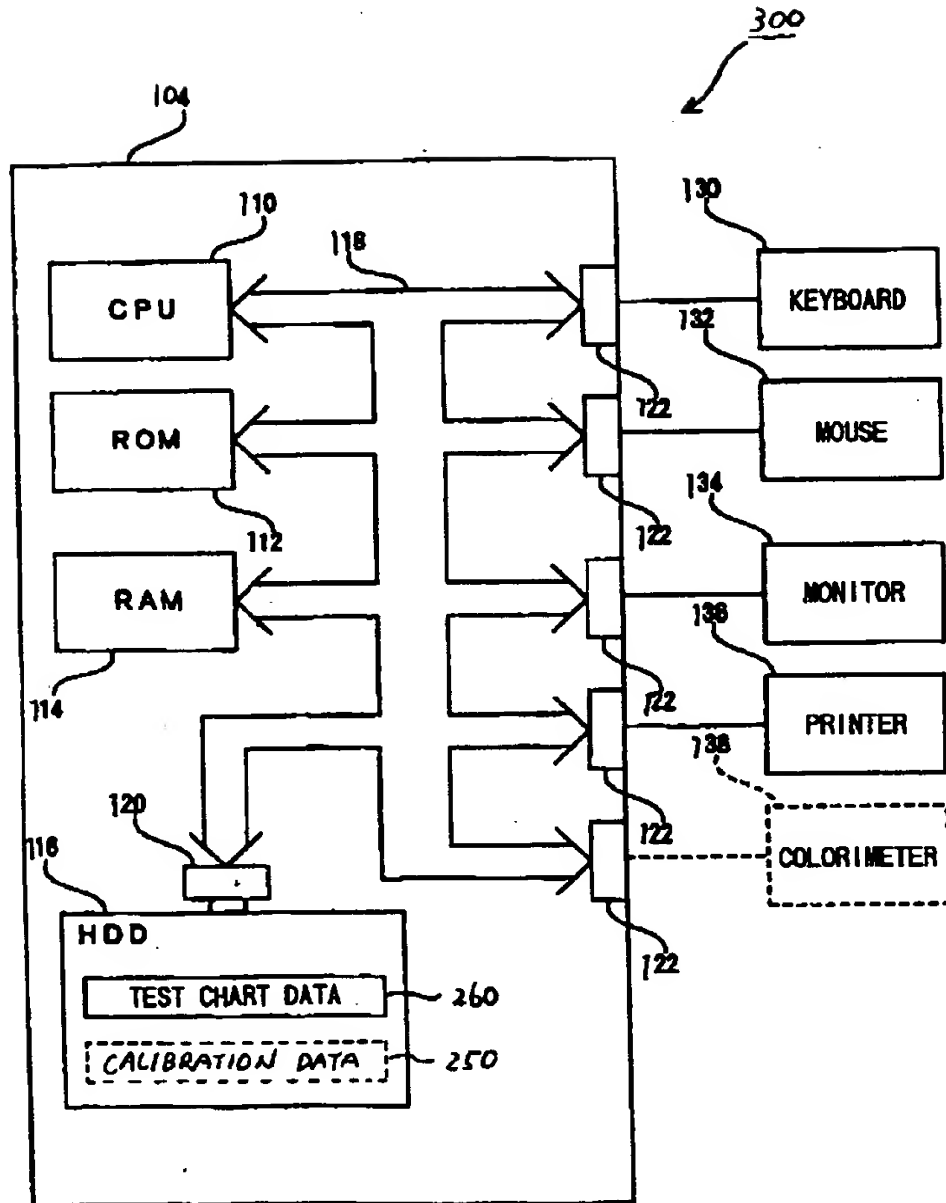
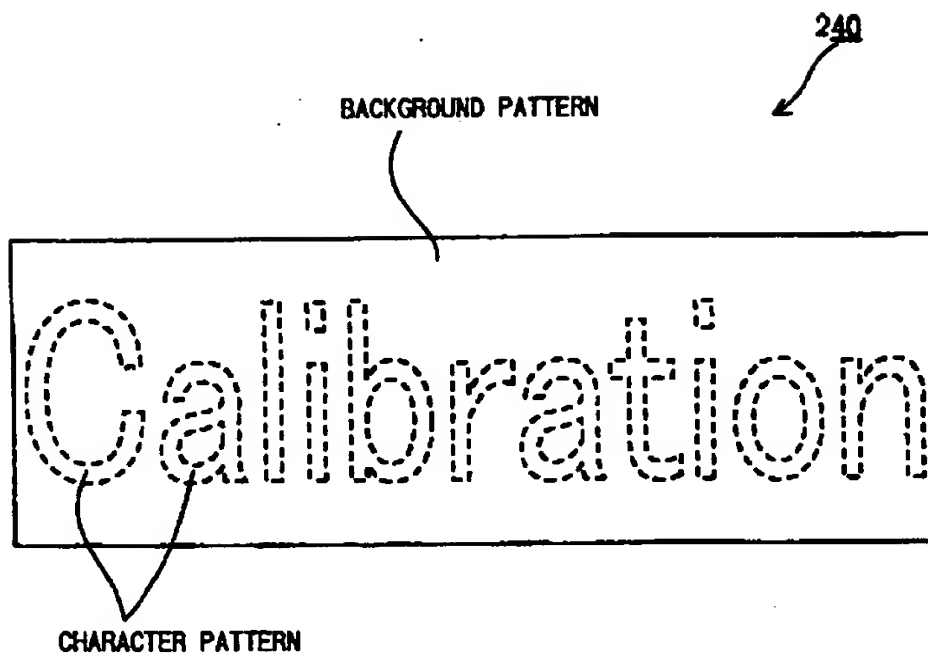


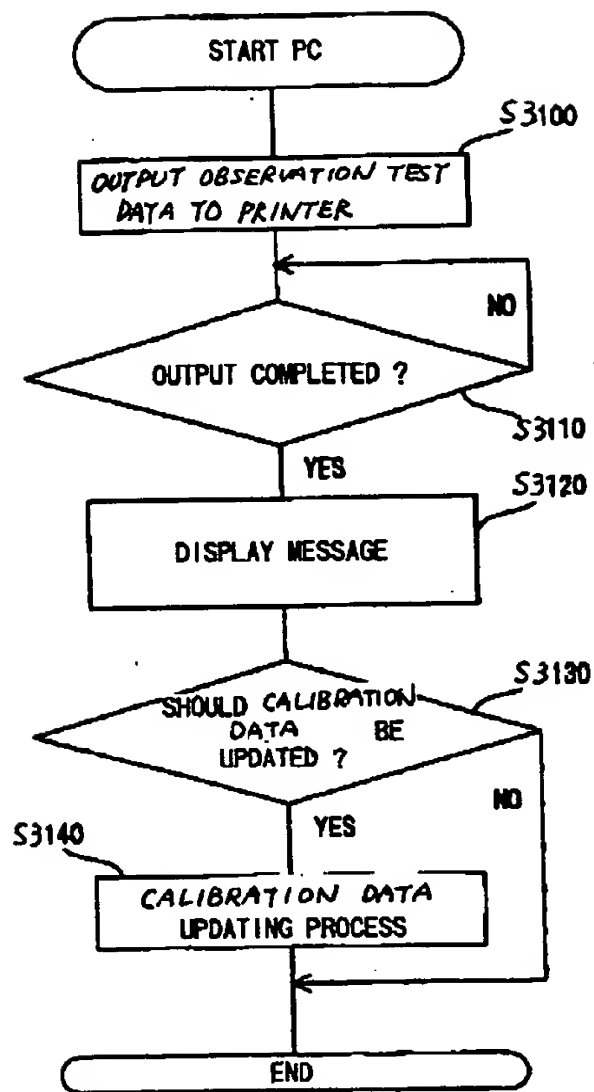
FIG. 13



09534028.032400

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FIG. 14



00420" 8204E560